


In the Claims

Please amend the claims as follows.

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1. (Cancelled)
 2. (Cancelled)
 3. (Cancelled)
 4. (Cancelled)
 5. (Cancelled)
 6. (Cancelled)
 7. (Cancelled)
 8. (Cancelled)
 9. (Cancelled)
 10. (Cancelled)

11. (Currently Amended) ~~The gateway of Claim 10, wherein:~~ A gateway for communicating telecommunication information, comprising:

a telecommunication interface module operable to receive first telecommunication information for a first subscriber and second telecommunication information for a second subscriber from a telecommunication network;

one or more packetization modules operable to generate first data packets for communicating the first telecommunication information according to a first data communication protocol associated with the first subscriber and to generate second data packets for communicating the second telecommunication information according to a second data communication protocol associated with the second subscriber; and

one or more network interface modules operable to communicate the first data packets using a first data link associated with the first subscriber and to communicate the second data packets using a second data link associated with the second subscriber, wherein the first data link communicates the first data packets to a digital subscriber line access multiplexer (DSLAM); and the second data link communicates the second data packets to a cable modem termination system (CMTS) or a base station controller (BSC).

12. (Cancelled)
13. (Cancelled)
14. (Cancelled)

15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (Cancelled)
23. (Cancelled)
24. (Cancelled)

25. (Currently Amended) ~~The method of Claim 24, further comprising:~~ A method for communicating telecommunication information, comprising:

receiving first telecommunication information for a first subscriber from a telecommunication network;

generating first data packets for communicating the first telecommunication information according to a first data communication protocol associated with the first subscriber;

receiving second telecommunication information for a second subscriber from the telecommunication network;

generating second data packets for communicating the second telecommunication information according to a second data communication protocol associated with the second subscriber;

communicating the first data packets using a first data link associated with the first subscriber;

communicating the second data packets using a second data link associated with the second subscriber;

communicating the first data packets to a digital subscriber line multiplexer (DSLAM) using the first data link; and

communicating the second data packets to a cable modem termination system (CMTS) or a base station controller (BSC) using the second data link.

26. (Cancelled)
27. (Cancelled)

28. (Cancelled)

29. (Currently Amended) ~~The method of Claim 15, further comprising:~~ A method for communicating telecommunication information, comprising:

receiving first telecommunication information for a first subscriber from a telecommunication network;

generating first data packets for communicating the first telecommunication information according to a first data communication protocol associated with the first subscriber;

receiving second telecommunication information for a second subscriber from the telecommunication network;

generating second data packets for communicating the second telecommunication information according to a second data communication protocol associated with the second subscriber;

communicating the first data packets to a digital subscriber line access multiplexer (DSLAM) using the first data communication protocol;

communicating the first data packets from the DSLAM to an integrated access device (IAD) using a digital subscriber line;

communicating the second data packets to a cable modem termination system (CMTS) using the second data communication protocol; and

communicating the second data packets from the CMTS to a media terminal adapter (MTA) using a cable link.

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30. (Currently Amended) ~~The method of Claim 15, further comprising:~~ A method for communicating telecommunication information, comprising:

receiving first telecommunication information for a first subscriber from a telecommunication network;

generating first data packets for communicating the first telecommunication information according to a first data communication protocol associated with the first subscriber;

receiving second telecommunication information for a second subscriber from the telecommunication network;

generating second data packets for communicating the second telecommunication information according to a second data communication protocol associated with the second subscriber;

communicating the first data packets to a digital subscriber line access multiplexer (DSLAM) using the first data communication protocol;

communicating the first data packets from the DSLAM to an integrated access device (IAD) using a digital subscriber line;

communicating the second data packets to a base station controller (BSC) using the second data communication protocol; and

communicating the second data packets from the BSC to a wireless network interface unit (WNIU) using a wireless link.

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31. (Amended) ~~The method of Claim 15, further comprising:~~ A method for communicating telecommunication information, comprising:

receiving first telecommunication information for a first subscriber from a telecommunication network;

generating first data packets for communicating the first telecommunication information according to a first data communication protocol associated with the first subscriber;

receiving second telecommunication information for a second subscriber from the telecommunication network;

generating second data packets for communicating the second telecommunication information according to a second data communication protocol associated with the second subscriber;

communicating the first data packets to a cable modem termination system (CMTS) using the first data communication protocol;

communicating the first data packets from the CMTS to a media terminal adapter (MTA) using a cable link;

communicating the second data packets to a base station controller (BSC) using the second data communication protocol; and

communicating the second data packets from the BSC to a wireless network interface unit (WNIU) using a wireless link.

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)


40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)

44. (Cancelled)

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45. (Cancelled)
46. (Cancelled)
47. (Cancelled)
48. (Cancelled)
49. (Cancelled)
50. (Cancelled)
51. (Cancelled)
52. (Cancelled)
53. (Cancelled)

54. (Original) A system for communicating telecommunication information, comprising:

a gateway operable to associate each of a plurality of subscribers with a data communication protocol, to receive telecommunication information for subscribers from a telecommunication network, and to generate data packets for communicating each subscriber's telecommunication information according to the data communication protocol associated with each subscriber;

a digital subscriber line access multiplexer (DSLAM) operable to communicate at least some of the data packets generated by the gateway to an integrated access device (IAD) using a digital subscriber line; and

a cable modem termination system (CMTS) operable to communicate at least some of the data packets generated by the gateway to a media terminal adapter (MTA) using a cable link.

55. (Original) The system of Claim 54, wherein the gateway generates data packets for communication to the DSLAM according to a first data communication protocol and generates data packets for communication to the CMTS according to a second data communication protocol.

56. (Original) The system of Claim 54, further comprising a base station controller (BSC) operable to communicate at least some of the data packets generated by the gateway to a wireless network interface unit (WNIU) using a wireless link.

57. (Original) The system of Claim 56, wherein the gateway generates data packets for communication to the DSLAM according to a first data communication protocol and generates data packets for communication to the BSC according to a second data communication protocol.